

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Appln. No. 09/895,197

Q64874

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A diaphragm for a speaker comprising:
a diaphragm body made of metal; and
an auxiliary diaphragm made of paper, the auxiliary diaphragm integrally bonded to a first part of the diaphragm body;

wherein the auxiliary diaphragm is formed to cover only the center portion of the diaphragm body, and

wherein the diaphragm body includes a second part in an area except for the center portion, where the second part is not covered with the auxiliary diaphragm, and

wherein an area of the auxiliary diaphragm is less than an area of the diaphragm body.

2. (canceled).

3. (previously presented): A diaphragm for a speaker comprising:
a diaphragm body made of metal; and
an auxiliary diaphragm made of paper, the auxiliary diaphragm integrally bonded to a part of the diaphragm body;

wherein a plurality of portions recessed toward the center of the diaphragm body are formed at a plurality of locations along the outer periphery of the auxiliary diaphragm.

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4. (original): The diaphragm according to claim 3, wherein the plurality of portions recessed is odd in number, and formed at regular angular intervals along the outer periphery of the auxiliary diaphragm.

5. (currently amended): A diaphragm for a speaker comprising:
a diaphragm body made of metal; and
an auxiliary diaphragm made of paper, the auxiliary diaphragm integrally bonded to a part of the diaphragm body;

wherein the outer configuration and the area of the auxiliary diaphragm are set based on the high limit frequency of the diaphragm to which the auxiliary diaphragm is bonded, and
wherein the diaphragm body includes a second part in an area except for the center portion, where the second part is not covered with the auxiliary diaphragm.

6. (currently amended): A diaphragm for a speaker comprising:
a diaphragm body made of metal; and
an auxiliary diaphragm made of paper, the auxiliary diaphragm integrally bonded to a part of the diaphragm body;

wherein a through hole for inserting a connecting cable is formed at a portion where the diaphragm body and the auxiliary diaphragm are overlapped, whereby a feeder portion of the diaphragm for inserting the connecting cable to connect with the a voice coil can be formed of paper of the auxiliary diaphragm, and

wherein the diaphragm body includes a second part in an area except for the center portion, where the second part is not covered with the auxiliary diaphragm.

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7. (currently amended): A diaphragm for a speaker comprising:
a diaphragm body made of metal; and
an auxiliary diaphragm made of paper, the auxiliary diaphragm integrally bonded to a part of the diaphragm body;
wherein a cylindrical portion to which a voice coil bobbin of a speaker is connected is integrally formed at the center of the auxiliary diaphragm, and
wherein the diaphragm body includes a second part in an area except for the center portion, where the second part is not covered with the auxiliary diaphragm.

8. (original): The diaphragm according to claim 1, wherein the auxiliary diaphragm is formed by manufacturing of paper.